

Brown shrimp

Albemarle Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	3	3	3	3	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	JUVENILES	2	2	2	2	3	3	3	3	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Brown shrimp

Bogue Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	2	2	4	5	5	5	5	5	4	4	0
	LARVAE	4	5	5	5	4	4	0	0	0	0	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	2	2	4	5	5	5	5	5	4	4	0
	LARVAE	4	5	5	5	4	4	0	0	0	0	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	2	2	4	5	5	5	5	5	4	4	0
	LARVAE	4	5	5	5	4	4	0	0	0	0	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	2	2	4	5	5	5	5	5	4	4	0
	LARVAE	4	5	5	5	4	4	0	0	0	0	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Brown shrimp

Cape Fear River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	3	3	3	4	4	4	4	0	0	0	0
	LARVAE	0	0	4	4	4	4	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	5	5	5	5	0	0	0	0
	LARVAE	0	0	4	4	4	4	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	5	5	5	5	2	2	2	2
	LARVAE	0	0	4	4	4	4	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	5	5	5	5	2	2	2	2
	LARVAE	0	0	4	4	4	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Brown shrimp

Neuse River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	3	3	3	3	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	3	3	3	3	3	2	2	2	2
	LARVAE	0	0	0	3	3	3	3	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	3	4	4	4	2	2	2	2	2
	LARVAE	0	0	0	3	3	3	3	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	4	4	4	0	0	0
	JUVENILES	2	2	2	4	4	4	4	2	2	2	2	2
	LARVAE	0	0	0	3	3	3	3	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Brown shrimp

New River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	3	5	5	5	5	2	2	2	0
	LARVAE	3	4	4	4	3	0	0	0	0	0	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	3	5	5	5	5	2	2	2	0
	LARVAE	3	4	4	4	3	0	0	0	0	0	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	3	5	5	5	5	2	2	2	0
	LARVAE	3	4	4	4	3	0	0	0	0	0	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	3	5	5	5	5	2	2	2	0
	LARVAE	3	4	4	4	3	0	0	0	0	0	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Brown shrimp

Pamlico Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	3	3	4	4	4	4	3	3	3	2
	LARVAE	3	3	3	3	3	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	3	3	4	4	4	4	3	3	3	2
	LARVAE	3	3	3	3	3	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	4	4	4	0	0	0
	JUVENILES	2	2	3	3	4	4	4	4	3	3	3	2
	LARVAE	3	3	3	3	3	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	4	4	4	0	0	0
	JUVENILES	2	2	3	3	4	4	4	4	4	3	3	2
	LARVAE	3	3	3	3	3	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Brown shrimp

Pamlico/Pungo River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	3	3	3	3	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	3	3	4	4	4	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	4	4	4	0	0	0
	JUVENILES	2	2	2	3	3	4	4	4	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Albemarle Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Bogue Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	3	3	3	3	3	0	0	0
	JUVENILES	0	0	0	0	2	2	2	2	2	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	3	3	3	3	3	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	0	0	0
	LARVAE	0	0	0	0	0	3	3	3	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Cape Fear River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	2	2	2	2	2	0	0	0
	JUVENILES	0	0	0	0	2	2	2	2	2	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	3	3	3	3	3	0	0	0
	JUVENILES	0	0	0	0	2	2	2	2	2	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Neuse River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

New River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	3	3	3	3	3	0	0	0
	JUVENILES	0	0	0	0	2	2	2	2	2	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	3	3	3	3	3	0	0	0
	JUVENILES	0	0	0	0	2	2	2	2	2	0	0	0
	LARVAE	0	0	0	0	0	3	3	3	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Pamlico Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	3	3	3	3	3	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	0	0	0
	LARVAE	1	1	1	1	1	1	1	1	1	1	1	1
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	3	3	3	3	3	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	0	0	0
	LARVAE	1	1	1	1	1	1	1	1	1	1	1	1
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Pamlico/Pungo River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Gray snapper

Albemarle Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Gray snapper

Bogue Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Gray snapper

Cape Fear River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	2	2	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	2	2	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Gray snapper

Neuse River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Gray snapper

New River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	2	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Gray snapper

Pamlico Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Gray snapper

Pamlico/Pungo River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Pink shrimp

Albemarle Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	3	3	3	3	3	3	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	3	3	3	0
	JUVENILES	2	2	2	2	2	3	3	3	3	3	3	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Pink shrimp

Bogue Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	4	4	4	4	4	3	3
	LARVAE	0	0	0	0	3	4	4	4	3	3	3	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	4	4	4	4	4	3	3
	LARVAE	0	0	0	0	3	4	4	4	3	3	3	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	4	4	4	4	4	3	3
	LARVAE	0	0	0	0	3	4	4	4	3	3	3	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	4	4	4	4	4	3	3
	LARVAE	0	0	0	0	3	4	4	4	3	3	3	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Pink shrimp

Cape Fear River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	4	4	4	4	4	4
	LARVAE	0	0	0	0	0	3	4	4	4	4	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	4	4	4	4	4	4
	LARVAE	0	0	0	0	0	3	4	4	4	4	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	4	4	4	4	4	4
	LARVAE	0	0	0	0	0	3	4	4	4	4	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	4	4	4	4	4	4
	LARVAE	0	0	0	0	0	3	4	4	4	4	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Pink shrimp

Neuse River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	3	3	3	3	4	4	4	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	3	3	3	3	4	4	4	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	3	3	3	0	0	3	3	3	0
	JUVENILES	0	0	0	3	3	3	3	4	4	4	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Pink shrimp

New River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	4	4	4	4	4	4	3	3
	LARVAE	0	0	0	0	3	4	4	4	3	3	3	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	4	4	4	4	4	4	3	3
	LARVAE	0	0	0	0	3	4	4	4	3	3	3	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	4	4	4	4	4	4	3	3
	LARVAE	0	0	0	0	3	4	4	4	3	3	3	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	4	4	4	4	4	4	3	3
	LARVAE	0	0	0	0	3	4	4	4	3	3	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Pink shrimp

Pamlico Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	4	4	4	4	4	4	4	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	4	4	4	4	4	4	4	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	3	3	3	3	3	3	0	0	4	4	4	3
	JUVENILES	3	3	3	3	4	4	4	4	4	4	4	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	4	4	4	4	4	4	0	0	4	4	4	4
	JUVENILES	3	3	3	3	4	4	4	4	4	4	4	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Pink shrimp

Pamlico/Pungo River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	3	3	3	3	3	3	3	3	3	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	3	3	3	3	3	3	3	3	3	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	3	3	3	0
	JUVENILES	2	2	3	3	3	3	3	3	3	3	3	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

Albemarle Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	2	2	2	2	2	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	3	3	3	3	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	3	3	3	3	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Red drum

Bogue Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	3	3	3	3	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	3	3	3	3	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	JUVENILES	3	3	3	3	3	3	3	3	4	4	4	3
	LARVAE	0	0	0	0	0	0	3	3	3	3	0	0
	SPAWN-EGG	0	0	0	0	0	0	3	3	3	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Red drum

Cape Fear River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	3	3	3	3	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

Neuse River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	2	2	2	2	2	2	2	0	0
	JUVENILES	0	0	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	2	2	2	2	2	2	2	0	0
	JUVENILES	0	0	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	3	3	3	3	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	2	2	2	2	2	2	2	0	0
	JUVENILES	0	0	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	3	3	3	3	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Red drum

New River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	2	2	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	2	2	2	2	2	2	2	2	2	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	2	2	2	2	2	2	2	2	2	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	2	2	2	2	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	2	2	2	2	2	2	2	2	2	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	2	2	2	2	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	2	2	2	2	2	2	2	2	2	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	2	2	2	2	0	0
	SPAWN-EGG	0	0	0	0	0	0	2	2	2	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

Pamlico Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	3	3	3	3	3	3	3	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	3	3	3	3	3	3	3	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	3	3	3	3	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	3	3	3	3	3	3	3	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	3	3	3	3	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	3	3	3	3	3	3
	SPAWN-EGG	0	0	0	0	0	0	0	2	2	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Red drum

Pamlico/Pungo River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Spanish mackerel

Albemarle Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	2	2	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	2	2	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	2	2	3	3	0	0
	JUVENILES	0	0	0	0	2	2	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Spanish mackerel

Bogue Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	3	3	3	3	3	3	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	4	4	4	4	4	4	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Spanish mackerel

Cape Fear River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	2	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	2	2	2	2	2	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	3	3	3	3	3	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Spanish mackerel

Neuse River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	2	2	2	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Spanish mackerel

New River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	2	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	3	3	3	3	3	3	0	0
	JUVENILES	0	0	0	0	0	3	3	3	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	3	3	4	4	4	4	4	4	3	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Spanish mackerel

Pamlico Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	3	3	3	3	3	3	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	3	3	3	3	3	3	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Spanish mackerel

Pamlico/Pungo River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	2	2	2	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

White shrimp

Albemarle Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	4	4	4	4	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	2	2	2	2	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	4	4	4	4	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	3	3	3	0
	JUVENILES	0	0	0	0	0	4	4	4	4	4	4	0
	LARVAE	0	0	0	0	0	4	4	4	4	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

White shrimp

Bogue Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	3	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	3	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	3	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	3	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

Cape Fear River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	2	2	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	5	5	5	5	5	5	5	0
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	5	5	5	5	5	5	5	0
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	5	5	5	5	5	5	5	0
	LARVAE	0	0	0	0	3	3	3	3	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

Neuse River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	3	3	3	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

New River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	3	3	3	3	3
	LARVAE	0	0	0	0	3	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	5	5	5	5	5	5	5	3
	LARVAE	0	0	0	0	3	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	5	5	5	5	5	5	5	3
	LARVAE	0	0	0	0	3	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	5	5	5	5	5	5	5	3
	LARVAE	0	0	0	0	3	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

White shrimp

Pamlico Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	2	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	4	4	4	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	4	4	4	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	3	3	3	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	4	4	4	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	3	3	3	3	3
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	3	3	3	3	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

Pamlico/Pungo River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Salzone1	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone2	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone3	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone4	ADULTS	0	0	0	0	0	0	0	0	3	3	3	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0
Salzone5	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWN-EGG	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Brown shrimp

Altamaha River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Brown shrimp

Broad River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	3	3	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	2	3	3	4	4	4	3	3	3	0
	LARVAE	3	4	4	3	3	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	3	3	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	2	3	3	4	4	4	3	3	3	0
	LARVAE	3	4	4	3	3	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Brown shrimp

Charleston Harbor

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	3	4	4	3	3	3	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	3	4	5	5	4	4	3	2	2
	LARVAE	3	4	5	5	4	3	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	3	4	4	3	3	3	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	3	4	5	5	4	4	3	2	2
	LARVAE	3	4	5	5	4	3	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Brown shrimp

North/South Santee River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	3	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	3	3	3	4	4	4	3	3	3
	LARVAE	0	0	0	3	3	3	2	2	2	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Brown shrimp

Ossabaw Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	4	4	4	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	4	4	4	4	4	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	4	4	4	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	4	4	4	4	4	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Brown shrimp

Savannah River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	2	2	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	2	2	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Brown shrimp

St Andrew /St Simon Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	4	4	4	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	4	4	4	4	4	4	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	4	4	4	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	4	4	4	4	4	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Brown shrimp

St Catherines/Sapelo Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	4	4	4	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	4	4	4	4	4	4	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	4	4	4	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	4	4	4	4	4	4	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Brown shrimp

St Helena Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	3	3	3	4	5	5	3	3	3	0
	LARVAE	3	3	4	4	4	3	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	3	3	3	4	5	5	3	3	3	0
	LARVAE	3	3	4	4	4	3	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Altamaha River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	2	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	2	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Broad River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	4	4	4	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	3	4	4	4	3	3	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	3	4	4	4	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	3	4	4	4	3	3	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Charleston Harbor

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	3	3	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	3	3	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

North/South Santee River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	3	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Ossabaw Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	2	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	2	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Savannah River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	2	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	2	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Cobia

St Andrew/St Simon Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	2	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	2	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

St Catherines/Sapelo Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	2	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	2	2	2	2	2	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

St Helena Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	3	3	3	3	3	3	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	3	3	3	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	3	3	3	3	3	3	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Gray snapper

Altamaha River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	0	0	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	0	0	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Gray snapper

Broad River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	2	2	2	2	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Gray snapper

Charleston Harbor

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	3	3	3	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Gray snapper

North/South Santee River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	3	3	3
	LARVAE	0	0	0	0	0	0	2	2	2	2	2	2
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Gray snapper

Ossabaw Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	0	0	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	0	0	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Gray snapper

Savannah River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	0	0	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	0	0	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Gray snapper

St Andrew/St Simon Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	0	0	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	0	0	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Gray snapper

St Catherines/Sapelo Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	0	0	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	0	0	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Gray snapper

St Helena Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	2	2	2	2	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Pink shrimp

Altamaha River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	2	2	2	2	2	2	2	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	2	2	2	2	2	2	2	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Pink shrimp

Broad River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	3	3	3	3	3	3	3	3	3	2
	LARVAE	0	0	0	0	3	3	3	3	3	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	3	3	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	3	3	3	3	3	3	3	3	3	2
	LARVAE	0	0	0	0	3	3	3	3	3	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Pink shrimp

Charleston Harbor

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	2	2	2	2	2	2	2	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	3	3	3	3	3	3	3	3	3	2
	LARVAE	0	0	0	0	3	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	2	2	2	2	2	2	2	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	3	3	3	3	3	3	3	3	3	2
	LARVAE	0	0	0	0	3	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Pink shrimp

North/South Santee River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	2	2	2	3	3	3	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	3	4	4	4	3	2	2
	LARVAE	0	0	0	0	0	0	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Pink shrimp

Ossabaw Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	2	0	0	0	0	0	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	3	3	3	3	3	3	3	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	2	0	0	0	0	0	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	3	3	3	3	3	3	3	0	0	0	0
	LARVAE	0	0	0	0	0	2	2	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Pink shrimp

Savannah River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	2	0	0	0	0	0	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	3	3	3	3	3	3	3	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	2	0	0	0	0	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	3	3	3	3	3	3	3	0	0	0	0
	LARVAE	0	0	0	0	0	2	2	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Pink shrimp

St Andrew/St Simon Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	2	0	0	0	0	0	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	3	3	3	3	3	3	3	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	2	0	0	0	0	0	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	3	3	3	3	3	3	3	0	0	0	0
	LARVAE	0	0	0	0	0	2	2	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Pink shrimp

St Catherines/Sapelo Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	2	0	0	0	0	0	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	3	3	3	3	3	3	3	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	2	0	0	0	0	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	3	3	3	3	3	3	3	0	0	0	0
	LARVAE	0	0	0	0	0	2	2	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Pink shrimp

St Helena Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	2	2	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	2	2	2	2	2	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	2	2	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	2	2	2	2	2	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

Altamaha River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	2	2	2	2	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	2	2	2	2	0
	SPAWNING	0	0	0	0	0	0	0	2	2	2	2	0
Seawater	ADULTS	0	0	0	3	4	5	4	3	3	4	5	5
	EGGS	0	0	0	0	0	0	0	2	2	2	2	0
	JUVENILES	5	3	3	3	3	3	3	5	5	5	5	5
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	2	2	2	2	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

Broad River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	3	3	3	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	0
	SPAWNING	0	0	0	0	0	0	0	3	3	3	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

Charleston Harbor

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	3	3	3	3	3	3	3	3	3	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	3	3	3	3	3	3	3	3	3	0
	EGGS	0	0	0	0	0	0	0	3	3	3	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	3	3	3	0	0
Tidal Fresh	ADULTS	0	0	2	2	2	2	2	2	2	2	2	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

North/South Santee River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	2	2	2	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	2	2	2	2	2	2	2	2	2	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

Ossabaw Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	2	2	2	2	0
	JUVENILES	4	3	3	3	3	3	3	4	4	4	4	4
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	2	2	2	2	0
Seawater	ADULTS	0	0	0	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	2	2	2	2	0
	JUVENILES	4	3	3	3	3	3	3	4	4	4	4	4
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	2	2	2	2	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

Savannah River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	2	2	2	2	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	2	2	2	2	0
Seawater	ADULTS	0	0	0	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	2	2	2	2	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	2	2	2	2	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

St Andrew /St Simon Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	2	2	2	2	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	2	2	2	2	0
Seawater	ADULTS	0	0	0	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	2	2	2	2	0
	JUVENILES	5	3	3	3	3	3	3	5	5	5	5	5
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	2	2	2	2	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

St Catherines/Sapelo Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	2	2	2	2	0
	JUVENILES	4	3	3	3	3	3	3	4	4	4	4	4
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	2	2	2	2	0
Seawater	ADULTS	0	0	0	3	3	3	3	3	3	3	4	4
	EGGS	0	0	0	0	0	0	0	2	2	2	2	0
	JUVENILES	4	3	3	3	3	3	3	4	4	4	4	4
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	2	2	2	2	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

St Helena Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	3	3	3	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	3	3	3	3	0
	SPAWNING	0	0	0	0	0	0	0	3	3	3	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Spanish mackerel

Altamaha River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Spanish mackerel

Broad River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	3	3	3	3	3	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	3	3	3	3	3	3	3	3	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	2	2	2	2	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Spanish mackerel

Charleston Harbor

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	2	2	3	3	3	3	3	3	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	2	2	2	2	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Spanish mackerel

North/South Santee River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	2	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Spanish mackerel

Ossabaw Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Spanish mackerel

Savannah River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Spanish mackerel

St Andrew/St Simon Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Spanish mackerel

St Catherines/Sapelo Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	3	3	3	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Spanish mackerel

St Helena Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	3	3	3	3	3	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	3	3	3	3	3	3	3	3	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	2	2	2	2	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

Altamaha River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	4	4	4	4	4	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	4	4	4	4	4	4	4	4	4
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	3	3	3	4	4	4	4	4	4
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	4	4	4	4	4	4	4	4	4
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

Broad River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	2	2	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	4	5	5	5	5	5	4
	LARVAE	0	0	0	0	3	4	4	4	3	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	3	3	3	2	2	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	3	3	3	3	3	5	5	5	5	5	5
	LARVAE	0	0	0	0	3	4	4	4	3	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

Charleston Harbor

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	3	3	3	3	3	3	3	4	5	5	4	3
	EGGS	0	0	0	0	2	2	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	4	5	5	5	5	5	5
	LARVAE	0	0	0	0	4	5	5	4	0	0	0	0
	SPAWNING	0	0	0	0	2	2	0	0	0	0	0	0
Seawater	ADULTS	3	3	3	3	3	3	3	4	5	5	4	3
	EGGS	0	0	0	0	2	2	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	4	5	5	5	5	5	5
	LARVAE	0	0	0	3	4	5	5	4	0	0	0	0
	SPAWNING	0	0	0	0	2	2	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

North/South Santee River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	2	2	2	3	3	3	4	4	4	4	4	4
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	5	5	5	5	5	5
	LARVAE	0	0	0	0	0	4	5	5	4	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

Ossabaw Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	4	3	3	3	3	3	4	4	5	5	5	4
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	5	5	5	5	5	5	4
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	5	4	3	3	3	4	4	4	5	5	5	5
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	5	5	5	5	5	5	4
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

Savannah River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	4	4	5	5	4	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	5	5	5	5	5	4	4
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	5	4	3	3	3	3	4	4	5	5	5	5
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	5	5	5	5	5	4	4
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

St Andrew/St Simon Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	5	4	3	3	3	3	4	4	5	5	5	5
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	5	5	5	5	5	5	4
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	5	4	3	3	3	3	4	4	5	5	5	5
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	5	5	5	5	5	5	4
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

St Catherines/Sapelo Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	5	3	3	3	3	4	4	4	5	5	5	5
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	5	5	5	5	5	4	4
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	5	3	3	3	3	4	4	4	5	5	5	5
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	5	5	5	5	5	4	4
	LARVAE	0	0	0	0	0	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

St Helena Sound

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	4	4	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	3	3	3	3	3	4	5	5	5	5	4
	LARVAE	0	0	0	0	4	5	5	4	3	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	3	4	4	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	3	3	3	3	3	4	5	5	5	5	4
	LARVAE	0	0	0	0	4	5	5	4	3	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Brown shrimp

Winyah Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
MIXING	ADULTS	0	0	0	0	0	4	4	4	4	4	4	0
	EGGS	0	0	0	0	0	0	0	0	2	2	0	0
	JUVENILES	2	2	3	3	4	4	4	4	3	3	3	2
	LARVAE	2	3	4	4	4	2	2	0	0	0	2	2
	SPAWNING	0	0	0	0	0	0	0	0	2	2	0	0
SEAWATER	ADULTS	0	0	0	0	0	4	4	3	3	3	3	0
	EGGS	0	0	0	0	0	0	0	0	2	2	0	0
	JUVENILES	2	2	3	3	4	4	4	3	2	2	2	2
	LARVAE	2	3	4	4	4	2	2	0	0	0	2	2
	SPAWNING	0	0	0	0	0	0	0	0	2	2	0	0
TIDAL FRESH	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Cobia

Winyah Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
MIXING	ADULTS	0	0	0	0	2	2	2	2	2	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	2	2	2	2	2	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
SEAWATER	ADULTS	0	0	0	0	2	2	2	2	2	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	2	2	2	2	2	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
TIDAL FRESH	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Gray snapper

Winyah Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
MIXING	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	2	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
SEAWATER	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	2	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	2	2	2	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
TIDAL FRESH	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Pink shrimp

Winyah Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
MIXING	ADULTS	0	0	0	0	0	2	2	2	2	2	2	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	3	3	3	3	3	3	3	2	2	2
	LARVAE	0	0	0	0	2	2	2	3	3	3	2	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
SEAWATER	ADULTS	2	2	3	3	3	3	3	3	3	3	3	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	3	3	3	3	3	3	3	2	2	2
	LARVAE	0	0	0	0	2	2	2	3	3	3	2	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
TIDAL FRESH	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

Winyah Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
MIXING	ADULTS	0	0	3	3	3	3	3	3	3	3	3	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	4	4	4	4	4	4	4
	LARVAE	0	0	0	0	0	0	2	2	2	2	2	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
SEAWATER	ADULTS	0	0	3	3	3	3	3	3	3	3	3	0
	EGGS	0	0	0	0	0	0	2	2	3	3	0	0
	JUVENILES	4	4	4	4	4	4	4	4	4	4	4	4
	LARVAE	0	0	0	0	0	0	2	2	3	3	3	0
	SPAWNING	0	0	0	0	0	0	2	2	3	3	0	0
TIDAL FRESH	ADULTS	0	0	2	2	2	2	2	2	2	2	2	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Spanish mackerel

Winyah Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
MIXING	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	2	2	2	2	2	2	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
SEAWATER	ADULTS	0	0	0	2	2	3	3	3	3	3	3	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	3	3	3	3	3	3	0
	LARVAE	0	0	0	0	0	2	2	2	2	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
TIDAL FRESH	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

Winyah Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
MIXING	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	4	4	4	4	4	3
	LARVAE	0	0	0	0	4	4	4	4	4	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
SEAWATER	ADULTS	2	2	2	2	3	3	3	3	3	3	3	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	4	4	4	4	4	3
	LARVAE	0	0	0	0	4	4	4	4	4	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
TIDAL FRESH	ADULTS	0	0	0	0	0	0	2	2	2	2	2	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	2	2	2	2	2	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Brown shrimp

Biscayne Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	2	2	2	2	2	2	0	0	0	2	2	2
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	2	2	2	2	2	2	0	0	0	2	2	2
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Brown shrimp

Indian River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	3	3	3	3	3	3	0	0	0	3	3	3
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	3	3	3	3	3	3	0	0	0	3	3	3
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Brown shrimp

St. Johns River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	3	3	4	4	4	4	4	3	3	3
	LARVAE	0	3	4	4	4	4	4	3	3	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	3	3	4	4	4	4	4	3	3	3
	LARVAE	0	3	4	4	4	4	4	3	3	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	2	2	2	2	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Cobia

Biscayne Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

Indian River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Cobia

St. Johns River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Gray snapper

Biscayne Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	5	5	5	5	5	5	5	5	5	5	5	5
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	5	5	5	5	5	5	5	5	5	5	5	5
	LARVAE	0	0	0	0	0	4	4	4	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	5	5	5	5	5	5	5	5	5	5	5	5
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	5	5	5	5	5	5	5	5	5	5	5	5
	LARVAE	0	0	0	0	0	5	5	5	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Gray snapper

Indian River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	5	5	5	5	5	5	5	5	5	5	5	5
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	5	5	5	5	5	5	5	5	5	5	5	5
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	5	5	5	5	5	5	5	5	5	5	5	5
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	5	5	5	5	5	5	5	5	5	5	5	5
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Gray snapper

St. Johns River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	3	3	3	3	3	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	3	3	3	3	3	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	3	3	3	3	3	3	3	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	3	3	3	3	3	3	3	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Pink shrimp

Biscayne Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	5	5	5	5	5	5	5	5	5	5	5	5
	LARVAE	4	4	4	4	5	5	5	5	5	4	4	4
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	5	5	5	5	5	5	5	5	5	5	5	5
	LARVAE	4	4	4	4	5	5	5	5	5	4	4	4
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Pink shrimp

Indian River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	3	3	3	3	3	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	4	4	4	4	4	3	3
	LARVAE	3	3	3	4	4	4	4	4	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	3	3	3	3	3	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	4	4	4	4	4	3	3
	LARVAE	3	3	3	4	4	4	4	4	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Pink shrimp

St. Johns River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	2	2	3	3	3	3	3	3	3	3	3	2
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	2	2	3	3	3	3	3	3	3	3	3	2
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Red drum

Biscayne Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	2	2	2	0	0	0	0	0	2	2	2	2
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	EGGS	2	2	0	0	0	0	0	0	2	2	2	2
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	2	2	2	0	0	0	0	0	2	2	2	2
	SPAWNING	2	2	0	0	0	0	0	0	2	2	2	2
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

Indian River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	4	4	4	4	3	3	3	3	3	3	3	4
	EGGS	3	3	3	0	0	0	0	0	3	3	3	3
	JUVENILES	5	5	5	4	4	4	4	4	4	4	4	5
	LARVAE	3	3	3	0	0	0	0	0	3	3	3	3
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	4	4	4	4	3	3	3	3	3	3	3	4
	EGGS	4	4	3	0	0	0	0	0	3	4	4	4
	JUVENILES	5	5	5	4	4	4	4	4	4	4	4	5
	LARVAE	4	4	4	0	0	0	0	0	3	4	4	4
	SPAWNING	4	4	3	0	0	0	0	0	3	4	4	4
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Red drum

St. Johns River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	4	4	4	4	4	4	4
	LARVAE	4	4	0	0	0	0	0	0	4	4	4	4
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	4	0	0	0	0	0	0	0	4	4	4	4
	JUVENILES	4	4	4	4	4	4	4	4	4	4	4	4
	LARVAE	4	4	0	0	0	0	0	0	4	4	4	4
	SPAWNING	4	0	0	0	0	0	0	0	4	4	4	4
Tidal Fresh	ADULTS	3	3	3	3	3	3	3	3	3	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	4	4	4	4	4	4	4	4	4
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Spanish mackerel

Biscayne Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	3	3	3	3	0	0	0	0	3	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	3	3	3	3	0	0	0	0	3	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	3	3	3	3	3	3	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

Spanish mackerel

Indian River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	2	2	0	0	0	0	0	0	0	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

Spanish mackerel

St. Johns River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	3	3	3	0	0	0	0	0	0	3	3	3
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	3	3	3	3	3	3	3	3	3	3	3	3
	LARVAE	0	0	0	0	0	0	3	3	3	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information
•	Zone not present
0	Not present

2	Rare
3	Common
4	Abundant
5	Highly abundant

White shrimp

Biscayne Bay

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	2	2	2	2	2	2	2	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	2	2	2	2	2	2	2	2	2
	LARVAE	0	0	0	2	2	2	2	2	2	2	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

Indian River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	3	3	3	3	3	3	3	3	2
	LARVAE	0	0	0	3	3	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	2	2	2	2	2	2	2	2	2	2	2	2
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	2	2	2	3	3	3	3	3	3	3	3	2
	LARVAE	0	0	0	3	3	3	3	3	3	3	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	0	0	0	0	0	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant

White shrimp

St. Johns River

SALINITY ZONE	LIFESTAGE	Relative abundance by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Mixing	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	3	3	3	5	5	5	4	4	4
	LARVAE	0	0	0	0	4	5	5	5	4	4	4	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Seawater	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	4	4	4	3	3	3	5	5	5	4	4	4
	LARVAE	0	0	0	0	4	5	5	5	4	4	4	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0
Tidal Fresh	ADULTS	0	0	0	0	0	0	0	0	0	0	0	0
	EGGS	0	0	0	0	0	0	0	0	0	0	0	0
	JUVENILES	0	0	0	0	0	0	3	4	4	4	3	0
	LARVAE	0	0	0	0	0	0	0	0	0	0	0	0
	SPAWNING	0	0	0	0	0	0	0	0	0	0	0	0

Legend: Relative Abundance

NI	No information	2	Rare
•	Zone not present	3	Common
0	Not present	4	Abundant
		5	Highly abundant